

GCF: Factors that are common between both numbers

$$\begin{array}{r} 2940: 2 \ 2 \ 3 \quad 5 \quad 7 \ 7 \\ 3150: 2 \quad 3 \ 3 \ 5 \ 5 \ 7 \\ \hline \text{GCF: } 2 \quad 3 \quad 5 \quad 7 \quad = 210 \end{array}$$

the GCF is $2 \times 3 \times 5 \times 7 = 210$.

LCM: Factors that are present in either/both numbers, but
DO NOT DUPLICATE

$$\begin{array}{r} 2940: 2 \ 2 \ 3 \quad 5 \quad 7 \ 7 \\ 3150: 2 \quad 3 \ 3 \ 5 \ 5 \ 7 \\ \hline \text{LCM: } 2 \ 2 \ 3 \ 3 \ 5 \ 5 \ 7 \ 7 = 44,100 \end{array}$$

the LCM is $2 \times 2 \times 3 \times 3 \times 5 \times 5 \times 7 \times 7 = 44,100$.